

## A B S T R A C T

The present invention relates to parallel computing. It allows to compute parts of a sequential program as e.g., functions or subprograms or procedures in parallel on a multi-processor computer, a cluster or a network of computers (10, 12, 14, 16) based on the message passing paradigm. In this concept of 'Procedural Parallel operating environment' all infrastructure needed to allow for parallel computation is encapsulated in a parallel procedure call (18). (Fig. 1)

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